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Practitioner's Docket No. BGR-017PCT/US

CHAPTER II

Preliminary Classification:
Proposed Class:
Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129.'" M.P.E.P., § 601, 7th ed.

AMENDMENT ACCOMPANYING NEW APPLICATION TRANSMITTAL

(ENTRY INTO U.S. NATIONAL PHASE UNDER CHAPTER II)

INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED
PCT/US00/40401	18 July 2000 (18.07.00)	21 July 1999 (21.07.99)

TITLE OF INVENTION
Enhanced Crossflow Heat Transfer

APPLICANT(S)
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B. Heron #3/Pre amdt A 10/8/2002

PRELIMINARY AMENDMENT

For the purposes of proceeding with this U.S. national stage application under 35 U.S.C. 371, please amend the claims of the above-identified PCT application as follows:

In the Claims

Cancel claims 1 – 38 without prejudice and substitute therefor new claims 39 – 82:

39. Fluid flow contouring apparatus for preferentially contouring the fluid path of a process fluid flowing cross-wise across and contacting a plurality of spaced-apart heat transfer conduits, said apparatus comprising a plurality of longitudinally continuous, sleeve-shaped baffle structures, each baffle structure comprising at least a paired set of fluid flow apertures which constitute the only upstream-to-downstream fluid passage through the fluid flow contouring apparatus, each of said baffle structures substantially symmetrically surrounding a heat transfer conduit to define an annular-shaped fluid flow region thereby isolating cross-wise fluid flow around that associated heat transfer conduit from cross-wise fluid flow around adjacent heat transfer conduits located transversely to the direction of fluid flow, and wherein the fluid flow apertures of a baffle structure are symmetrically located respectively upstream and downstream of the associated heat transfer conduit in at least partial upstream and downstream alignment with each other and with the associated heat transfer conduit, whereby each said baffle structure contours the flow path of said process fluid to establish a substantially uniform fluid flow pattern around the contour of the associated heat transfer conduit.